

IN THE CLAIMS

Cancel claims 3 and 13 without prejudice.

Please amend claims 1 and 11 to the following:

--1. (Amended) Demodulation structure for downconverting and demodulating a digitally modulated signal ( $S_0$ ), comprising:

- a local oscillator means (1, 5, 8) for providing a local oscillator signal ( $S_{l0}$ ),
- a mixer means (2) for mixing said local oscillator signal ( $S_{l0}$ ) and said digitally modulated signal ( $S_0$ ) in order to obtain a mixed signal,
- a low pass filter means (3) for low pass filtering said mixed signal from said mixer means (2), and
- an analog-to-digital converting means (4) for converting the filtered signal from said low pass filter means (3) into a downconverted and demodulated digital signal ( $S_1$ ),

whereby said local oscillator signal is set in respect to said modulated digital signal so that said downconverted and demodulated digital signal ( $S_1$ ) output from said analog-to-digital converting means comprises two serially arranged information parts, and

wherein said digitally modulated signal ( $S_0$ ) is modulated in a signal band having a center frequency ( $f_c$ ) and said local oscillator signal has a center frequency ( $f_{l0}$ ), which is, in respect to said frequency ( $f_c$ ) of the signal band, offset by half of the signal band width of the modulated digital signal ( $S_0$ ).--

--11. (Amended) Method for downconverting and demodulating a digitally modulated signal ( $S_0$ ), comprising the steps of:

providing a local oscillator signal ( $S_{l0}$ ),

mixing said local oscillator signal ( $S_{l0}$ ) and said digitally modulated signal ( $S_0$ ) in order to obtain a mixed signal,

low pass filtering said mixed signal, and

analog-to-digital converting the filtered signal into a downconverted and demodulated digital signal ( $S_1$ ),

whereby said local oscillator signal ( $S_{l0}$ ) is set in respect to said modulated digital signal ( $S_0$ ) so that said downconverted and demodulated digital signal ( $S_1$ ) comprises two serially arranged information parts, and

wherein said digitally modulated signal ( $S_0$ ) is modulated in a signal band having a center frequency ( $f_c$ ) and said local oscillator signal ( $S_{l0}$ ) has a center frequency ( $f_{l0}$ ) which is, in respect to said center frequency ( $f_c$ ) of the signal band, offset by half of the signal band width of the modulated digital signal ( $S_0$ ).--